

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the Application.

1 (Currently amended): A cleaning, disinfection, and indicator agent containing comprising:

a first oxidant comprising a water-soluble permanganate, ~~in particular for admixing with an agent for ensuring an alkaline milieu having a pH value of at least 11, wherein, in addition to the water-soluble permanganate, it comprises:~~

~~—— a further oxidizing agent, whose oxidation potential is above that of manganese VII to manganese VI,~~

a second oxidant whose oxidation potential exceeds that of a mixture containing 50 mol% manganese VII and 50 mol% manganese VI; and

~~—— a pH buffer substances, preferably primary and/or secondary alkali carbonates such as sodium carbonate and/or sodium hydrogen carbonate, and~~

~~—— oxidation-resistant polyphosphates.~~

2 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein the oxidation potential of the further oxidizing agent second oxidant is above that of HO₂⁻ to OH⁻.

3 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein the ~~further oxidizing agent~~second oxidant is comprises a persulfate, ~~preferably a peroxodisulfate~~.

4 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 319, wherein the peroxodisulfate ~~is~~ comprises sodium peroxodisulfate.

5 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein the permanganate ~~is~~ comprises potassium permanganate.

6 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein ~~it the cleaning, disinfection, and indicator agent~~ contains comprises sodiumtripolyphosphate ~~as the oxidation-resistant~~ polyphosphate.

7 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein ~~it the cleaning, disinfection, and indicator agent~~ contains sodium hexametaphosphate ~~as the oxidation-resistant~~ polyphosphate.

8 (Currently amended): The cleaning, disinfection, and indicator agent according to Claim 1, wherein ~~it~~ the cleaning, disinfection, and indicator agent ~~has~~ comprises the following composition:

- 3-5% sodiumperoxodisulfate, preferably 4%
- 0.06-0.08% potassium permanganate, preferably 0.07%
- 5-7% sodium tripolyphosphate, preferably 6%
- 9-11% sodium hexametaphosphate, preferably 10%
- 2.0-3.0%, preferably 2.6%, of the mixture of sodium carbonate and sodium hydrogen carbonate, ~~preferably in the ratio 3:1.~~

9 (Currently amended): A method for cleaning, disinfection, and monitoring ~~the cleanliness, comprising: of commercial and industrial plants or plant components, wherein in a first step, a cleaning, disinfection, and indicator agent comprising~~

- a water-soluble permanganate,
 - a further oxidizing agent, whose oxidation potential is above that of manganese VII to manganese VI,
 - pH buffer substances, preferably primary and/or secondary alkali carbonates such as sodium carbonate and/or sodium hydrogen carbonate, as well as oxidation-resistant polyphosphates
- is combined combining the cleaning, disinfection, and indicator agent of claim 1 with water to form in a first aqueous solution; with

combining an alkaline agent for ensuring an alkaline milieu having a pH value of at least 11, preferably at least 12, in a second step, with the first aqueous solution to form a second aqueous solution, wherein the alkaline agent is configured to ensure a pH of the second aqueous solution of at least 11; thus obtained is circulated

through the plants or plant components to be cleaned and/or disinfected;
and

tracking the cleaning progress is tracked by ascertaining the monitoring an intensity of the light emitted in the violet wavelength range by passed through the second aqueous solution.

10 (Currently amended): The method according to Claim 9, wherein the cleaning progress is additionally tracked by ascertaining the intensity of the light emitted in the comprises violet, green and/or yellow wavelength ranges by the solution.

11 (Currently amended) A. The method according to claim 9, further comprising circulating the second aqueous solution through the components to be cleaned and/or disinfected for cleaning, disinfecting, and monitoring the cleanliness of commercial and industrial plants or plant components, in which an aqueous solution having a pH value of at least 11, preferably at least 12, is circulated through the plants or plant components to be cleaned and/or

~~disinfected, wherein during the circulation, a cleaning, disinfection, and indicator agent comprising~~

~~-a water-soluble permanganate,~~

~~-a further oxidizing agent, whose oxidation potential is above that of~~

~~manganese VII to manganese VI,~~

~~-pH buffer substances, preferably primary and/or secondary alkali~~

~~carbonates such as sodium carbonate and/or sodium hydrogen carbonate, as well as~~

~~-oxidation-resistant polyphosphates~~

~~is admixed and the cleaning progress is tracked by ascertaining the intensity of the light emitted in the violet wavelength range by the admixed cleaning, disinfection, and indicator agent.~~

12 (Canceled):

13 (Currently amended): The method according to Claim 9, wherein the cleaning, disinfection, and indicator agent has comprises the following composition:

- 3-5% sodium peroxodisulfate, ~~preferably 4%~~
- 0.06-0.08% potassium permanganate, ~~preferably 0.07%~~
- 5-7% sodium tripolyphosphate, ~~preferably 6%~~
- 9-11% sodium hexametaphosphate, ~~preferably 10%~~

- 2.0-3.0%, preferably 2.6%, of a mixture of sodium carbonate and sodium hydrogen carbonate, preferably in the ratio 3:1.

14 (Currently amended): The method according to Claim 9, wherein the monitoring the intensity of the light light intensity is ascertained automatically.

15. (Currently amended): The method according to Claim 9, wherein the removed contaminate load cleanliness is calculated from the intensity change of the light passed through the second aqueous solution emitted and the quantity of the cleaning, disinfection, and indicator agent used.

16 (Canceled)

17 (Canceled)

18 (New): The method according to claim 9, further comprising circulating the alkaline agent through the components to be cleaned and/or disinfected and subsequently combining the alkaline agent with the first aqueous solution.

19 (New): The cleaning, disinfection, and indicator agent according to Claim 3, wherein the second oxidant comprises a peroxodisulfate.

20 (New) The cleaning, disinfection, and indicator agent according to Claim 1, wherein the agent is in a liquid form and storage-stable.

21 (New) The method of claim 9, wherein the method is configured to clean carbonators, fillers or brewery.

22. (New) The composition of claim 1, wherein the composition changes color on contact with the substance external to the composition, wherein said color change allows a visual evaluation of an amount of the substance external to the composition oxidized by the composition.

23 (New) The composition as claimed in claim 1, wherein the color change is from purple to a second color other than purple.

24 (New) The composition as claimed in claim 23, wherein the second color is green.

25 (New) The composition as claimed in claim 23, wherein the second color is yellow.

26 (New) The composition as claimed in claim 1, wherein the composition changes color upon contact with a substance external to the composition, wherein the substance external to the composition comprises an organic substance.

27 (New) The composition of claim 26, wherein the water-soluble permanganate reacts with the organic substance.

28 (New) The composition of claim 26, wherein a peroxodisulfate reacts with the organic substance.

29 (New) The composition as claimed in claim 1, wherein the composition changes color upon contact with a substance external to the composition, wherein the substance external to the composition comprises an organic substance, the second oxidant comprises peroxodisulfate, and both the water-soluble permanganate and the peroxodisulfate react with the organic substance.